

इंटरनेट

मानक

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Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 3720 (1983): Dimensions of Plugs for Hearing Aids [LITD
3: Electromechanical COmponents and Mechnical Structures
for Electronic Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
**DIMENSIONS OF
PLUGS FOR HEARING AIDS**

(First Revision)
(IEC Title : Dimensions of Plugs for Hearing Aids)

National Foreword

This Indian Standard, which is identical with IEC Pub 90 (1973) 'Dimensions of plugs for hearing aids' issued by the International Electrotechnical Commission (IEC), was adopted by the Indian Standards Institution on the recommendation of Connectors for Electronic Equipment Sectional Committee and approved by Electronics and Telecommunication Division Council. This is the first revision of IS : 3720-1966.

In the adopted standard certain terminology and conventions are not identical with those used in Indian Standards, attention is especially drawn to the following.

Comma (,) has been used as a decimal marker while in Indian Standards the current practice is to use a point (.) as the decimal marker.

Wherever the word 'Recommendation' appears referring to this standard, it should be read as 'Indian Standard'.

National Appendix

The terms and definitions applicable to this standard are given in Appendix A.

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1. Scope

This recommendation applies to plugs for hearing aids and gives information on :

1.1 Two-pin polarized plugs.

1.2 Three-pin plugs.

2. Object

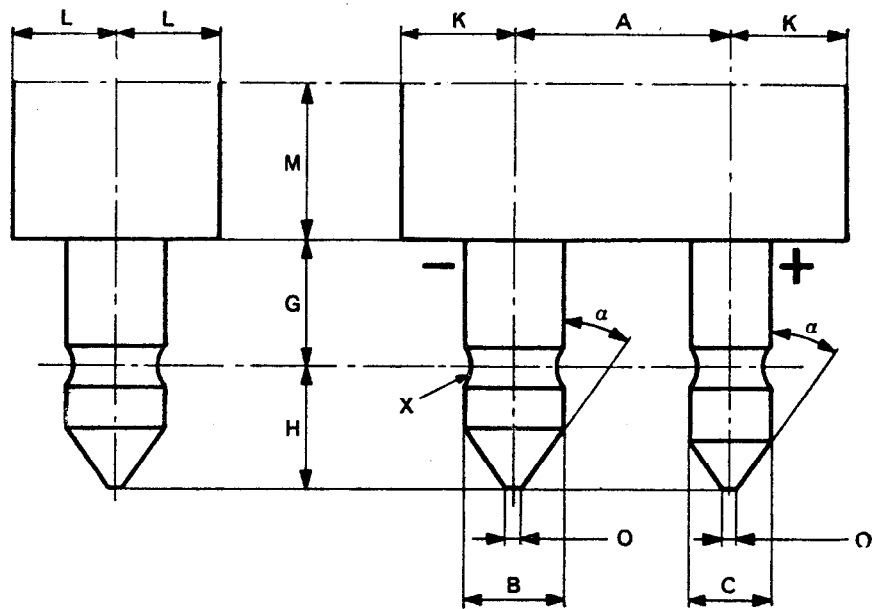
This recommendation gives those dimensions and their tolerances which are essential for ensuring interchangeability.

3. Dimensions

3.1 The dimensions given in this recommendation apply to the complete plugs, including the compressed size of any sealing device.

3.2 The two-pin polarized plug is shown schematically in Figure 1, page 6. The various dimensions designated by letters are given in Table I together with their tolerances.

3.3 The three-pin plug is shown schematically in Figure 2, page 7. The various dimensions designated by letters are given in Table I together with their tolerances.



Profile of groove

Detail X 4:1

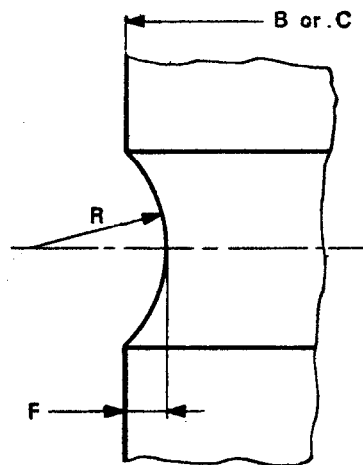


Fig. 1. — Two-pin plug.

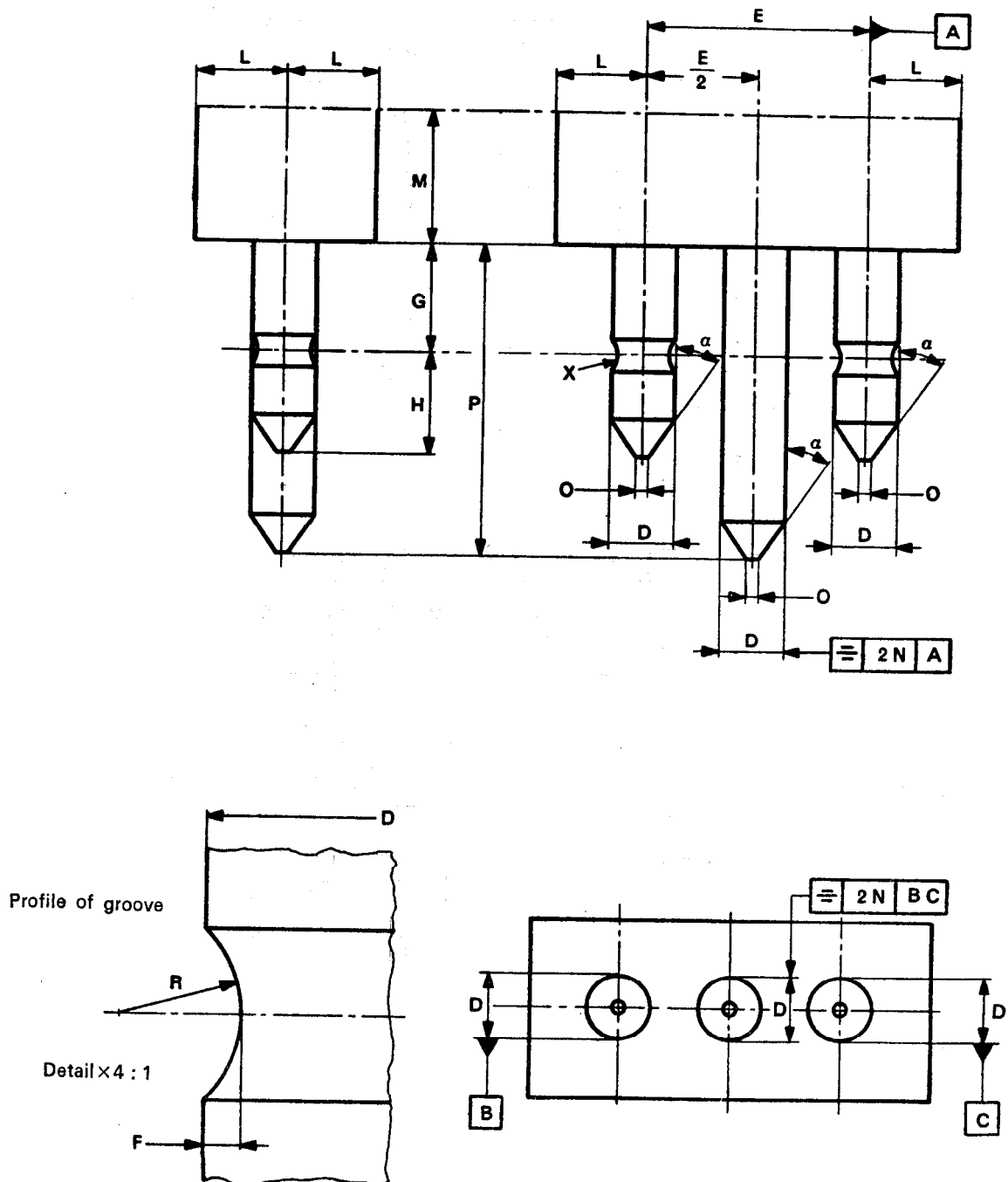


Fig. 2. — Three-pin plug.

TABLE I
Dimensions of plugs

Ref.	Millimetres			Notes
	Min.	Nom.	Max.	
A	3,45	3,50	3,55	
B	1,56	1,58	1,60	1
C	1,26	1,28	1,30	1
D	1,16	1,18	1,20	1
E	4,15	4,20	4,25	
F	0,10	0,12	0,14	
G	2,00	2,05	2,10	4
H	1,9	1,9	2,0	
K	—	—	1,9	
L	—	—	1,7	2
M	2,5	—	—	2
N	—	—	0,04	3
O	—	—	0,3	1
P	5,7	5,9	6,0	4
R	0,42	0,45	0,48	
α	Degrees			
	35	35	3	

Notes 1. — The pins are cylindrical with conical ends; therefore dimensions B, C, D and O are diameters.

2. — The distances between the face of the plug body and the centre lines of the outer pins shall not exceed the indicated values K and L within the portion designated by dimension M. Beyond M, these dimensions are not limited.
3. — Any deviation of the position of each of the centres of the pins away from their common centre line shall be within the indicated value N. The distances between the centre pin and each of the two outer pins, shall not differ more than the indicated value N.
4. — When a sealing device is to be used with a plug, dimensions G and P are to be measured to the face of the compressed device in order to place the grooves in position for correct detent action. When it is intended that a sealing device be used, it shall be supplied as part of the plug.

NATIONAL APPENDIX A

TERMS AND DEFINITIONS

A-1. Plug — A device having conducting pins projecting from an insulating cover and designed to make electrical connection with an appropriate socket. The plug is usually connected to a flexible cable (cord) whose separate conductors are terminated electrically on the pins.

A-2. Polarised — A term applied to a plug or socket so designed that the connection between the two can be made in one sense only.

A-3. Non-polarised — A term applied to a plug or socket so designed that the connection between the two may be made in either sense.

A-4. Hearing-Aid Amplifier — A device for producing alternating currents required for driving the ear-phone or receiver.

A-5. Insert Earphone — An air-conduction receiver of small dimensions associated with a fitting for insertion into the auditory meatus.

A-6. Bone-Conduction Receiver — A receiver utilizing the conduction of sound to the inner ear by the cranial bones.